

DELAWARE RIVER BASIN

RESERVOIRS IN DELAWARE RIVER BASIN

01416900 PEPACTON RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, Hydrologic Unit 02040102, near release chamber at Downsview Dam on East Branch Delaware River, and 1.6 mi east of Downsview. **DRAINAGE AREA**, 372 mi². **PERIOD OF RECORD**, September 1954 to current year. **REVISED RECORDS**, WDR NY-90-1: Drainage area. **GAGE**, water-stage recorder. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 15, 1954. Usable capacity 140,190 mil gal between minimum operating level, elevation, 1,152.0 ft and crest of spillway, elevation, 1,280.0 ft. Capacity: at crest of spillway 149,799 mil gal; at minimum operating level, 9,609 mil gal; at sill of diversion tunnel, elevation, 1,143.0 ft, 6,098 mil gal; in dead storage below release outlet, elevation, 1,126.50 ft, 1,898 mil gal. Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see elsewhere in this section), for water supply to City of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Jan. 6, 1955. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 154,761 mil gal, Sept. 19, 2004, elevation, 1,282.66 ft; minimum observed (after first filling), 9,575 mil gal, Dec. 26, 1964, elevation, 1,151.92 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 154,761 mil gal, Sept. 19, elevation, 1,282.66 ft; minimum observed, 128,866 mil gal, Mar. 2, 3, elevation, 1,268.16 ft.

01424997 CANNONVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, Hydrologic Unit 02040101, in emergency gate tower at Cannonsville Dam on West Branch Delaware River, and 1.8 mi southeast of Stilesville. **DRAINAGE AREA**, 454 mi². **PERIOD OF RECORD**, October 1963 to current year. **REVISED RECORDS**, WDR NY-71-1: 1966. **GAGE**, water-stage recorder. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 30, 1963. Usable capacity 95,706 mil gal between minimum operating level, elevation, 1,040.0 ft and crest of spillway, elevation, 1,150.0 ft. Capacity, at crest of spillway, 98,618 mil gal; at minimum operating level, 2,912 mil gal; at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft, 1,892 mil gal; in dead storage below release outlet elevation, 1,020.5 ft, 328 mil gal. Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see elsewhere in this section); is released in Delaware River for downstream low flow augmentation, as directed by the Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,617 mil gal, Mar. 16, 1986, elevation, 1,156.73 ft; minimum observed (after first filling), 6,157 mil gal, Nov. 26, 2001, elevation, 1,051.76 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 107,057 mil gal, Sept. 19, elevation, 1,155.23 ft; minimum observed, 83,469 mil gal, July 26, elevation, 1,139.77 ft.

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'21", long 74°47'00", Sullivan County, Hydrologic Unit 02040104, at dam on Mongaup River, and 1.8 mi northwest of Fowlersville. **DRAINAGE AREA**, 116 mi², excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir. **PERIOD OF RECORD**, January 1930 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WDR NY-86-1: 1985. WDR NY-90-1: Drainage area. **GAGE**, nonrecording gage, usually daily readings about 0900. Datum of gage is NGVD of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,010 ft.

Reservoir is formed by an earthfill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ between elevations 1,010.0 ft, minimum operating pool, and 1,071.2 ft, top of flashboards. Capacity below elevation 1,010.0 ft, minimum operating pool, about 212.7 mil ft³. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft. Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records provided by Mirant New York, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,461.6 mil ft³, Mar. 14, 1977, elevation, 1,071.8 ft; minimum observed (after first filling), -141.4 mil ft³, Dec. 2, 1938, elevation, 987.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,375.2 mil ft³, Dec. 12, elevation, 1,069.7 ft; minimum observed, 1,102.6 mil ft³, Mar. 1, 2, June 16, elevation, 1,062.6 ft.

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi southeast of village of Black Lake. **DRAINAGE AREA**, 22.9 mi². **PERIOD OF RECORD**, January 1926 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WSP 1702: 1959 (M). WDR NY-85-1: 1984. WDR NY-86-1: 1985. WDR NY-90-1: Drainage area. **GAGE**, nonrecording gage, usually daily readings about 0900. Datum of gage is NGVD of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,165.0 ft.

Reservoir is formed by an earthfill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft³ between elevations 1,165.0 ft, minimum operating pool, and 1,220.0 ft, top of permanent flashboards. Capacity below elevation 1,165.0 ft, minimum operating pool, about 26.8 mil ft³. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft. Records provided by Mirant New York, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,171.2 mil ft³, July 20, 1945, elevation, 1,222.0 ft; minimum observed (after first filling), -26.8 mil ft³, Nov. 15, 1928, elevation, 1,144.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,152.7 mil ft³, Sept. 20, elevation, 1,221.5 ft; minimum observed, 783.6 mil ft³, Feb. 20, 23, 25, Mar. 1, 3, elevation, 1,210.1 ft.

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi northwest of Fowlersville. **DRAINAGE AREA**, 6.46 mi², excluding area above Toronto Reservoir. **PERIOD OF RECORD**, January 1939 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WDR NY-75-1: 1974(m). WDR NY-86-1: 1985. **GAGE**, nonrecording gage, usually daily readings about 0900. Datum of gage is NGVD of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,043.3 ft.

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ between elevations 1,043.3 ft, minimum operating pool, and 1,072.0 ft, top of permanent flashboards. Capacity below elevation 1,043.3 ft, minimum operating pool, about 6.54 mil ft³. Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft. Records provided by Mirant New York, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 145.44 mil ft³, July 30, 31, 1945, elevation, 1,073.1 ft; minimum observed (after first filling), about -6.54 mil ft³, Mar. 16, 1963, elevation, 1,038.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 137.76 mil ft³, Sept. 20, elevation, 1,072.2 ft; minimum observed, 68.06 mil ft³, June 16, elevation, 1,062.5 ft.

DELAWARE RIVER BASIN

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

01435900 NEVERSINK RESERVOIR.--Lat 41°49'27", long 74°38'20", Sullivan County, Hydrologic Unit 02040104, at a gatehouse at Neversink Dam on Neversink River, and 2 mi southwest of Neversink. **DRAINAGE AREA.** 92.5 mi². **PERIOD OF RECORD.** June 1953 to current year. **REVISED RECORDS.** WDR NY-85-1: Drainage area. **GAGE,** nonrecording gage read daily at 0900. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began June 2, 1953. Usable capacity 34,941 mil gal between minimum operating level, elevation, 1,319.0 ft and crest of spillway, elevation, 1,440.0 ft. Capacity at crest of spillway 37,146 mil gal; at minimum operating level, 2,205 mil gal; dead storage below diversion sill and outlet sill, elevation 1,314.0 ft, 1,680 mil gal. Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see elsewhere in this section); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Dec. 3, 1953. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,983 mil gal, Apr. 17, 1993, elevation, 1,441.68 ft; minimum observed (after first filling), 1,985 mil gal, Nov. 25, 1964, elevation, 1,316.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 37,743 mil gal, Dec. 25, elevation, 1,441.20 ft; minimum observed, 33,128 mil gal, Oct. 27, elevation, 1,431.59 ft.

MONTH-END ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) †	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01416900 Pepacton Reservoir				01424997 Cannonsville Reservoir			01433000 Swinging Bridge Reservoir		
Sept. 30	1,280.83	151,336		1,151.20	100,549		1,069.5	1,367.1	
Oct. 31	1,281.13	151,895	+27.9	1,152.74	103,027	+124	1,068.3	1,319.0	-18.0
Nov. 30	1,280.92	151,503	-20.2	1,151.48	101,000	-105	1,068.3	1,319.0	0.0
Dec. 31	1,280.49	150,707	-39.7	1,151.61	101,209	+10.4	1,068.7	1,335.0	+6.0
CAL YR 2003	--	--	+122	--	--	+53.9	--	--	+1.6
Jan. 31	1,274.73	140,261	-521	1,149.45	97,782	-171	1,062.7	1,106.2	-85.4
Feb. 29	1,268.37	129,223	-589	1,145.59	91,910	-313	1,062.6	1,102.6	-1.4
Mar. 31	1,278.57	147,173	+896	1,151.49	101,016	+454	1,066.9	1,264.0	+60.3
Apr. 30	1,280.40	150,540	+174	1,151.13	100,436	-29.9	1,067.0	1,267.9	+1.5
May 31	1,280.19	150,151	-19.4	1,150.83	99,953	-24.1	1,065.9	1,225.5	-15.8
June 30	1,276.49	143,406	-348	1,146.08	92,655	-376	1,064.2	1,161.4	-24.7
July 31	1,275.17	141,043	-118	1,144.48	90,261	-119	1,068.7	1,335.0	+64.8
Aug. 31	1,279.57	149,009	+398	1,149.74	98,223	+397	1,069.0	1,346.9	+4.4
Sept. 30	1,280.56	150,836	+94.2	1,150.25	99,021	+41.2	1,067.5	1,287.5	-22.9
WTR YR 2004	--	--	-2.1	--	--	-6.5	--	--	-2.5
Date	Elevation (feet) †	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) †	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01433100 Toronto Reservoir				01433200 Cliff Lake			01435900 Neversink Reservoir		
Sept. 30	1,219.3	1,073.7		1,069.3	114.20		1,440.20	37,246	
Oct. 31	1,220.1	1,101.8	+10.5	1,070.3	122.09	+2.9	1,440.58	37,434	+9.4
Nov. 30	1,219.9	1,094.7	-2.7	1,071.3	130.25	+3.1	1,439.57	36,934	-25.8
Dec. 31	1,220.2	1,105.4	+4.0	1,071.4	131.08	+0.3	1,439.61	36,954	+1.0
CAL YR 2003	--	--	+2.3	--	--	+1.0	--	--	+32.3
Jan. 31	1,217.1	998.0	-40.1	1,065.9	89.60	-15.5	1,440.19	37,241	+14.3
Feb. 29	1,210.1	783.6	-85.6	1,062.9	70.46	-7.7	1,440.12	37,206	-1.9
Mar. 31	1,213.9	895.0	+41.6	1,067.1	97.88	+10.2	1,435.32	34,876	-116
Apr. 30	1,216.0	961.4	+25.6	1,066.7	95.09	-1.1	1,438.04	36,184	+67.5
May 31	1,219.4	1,077.2	+43.2	1,065.9	89.60	-2.0	1,439.28	36,791	+30.3
June 30	1,217.5	1,011.6	-25.3	1,065.4	86.30	-1.3	1,436.47	35,426	-70.4
July 31	1,212.4	850.1	-60.3	1,068.9	111.11	+9.3	1,439.73	37,013	+79.2
Aug. 31	1,216.7	984.6	+50.2	1,068.0	104.36	-2.5	1,438.94	36,624	-19.4
Sept. 30	1,220.6	1,119.8	+52.2	1,071.1	128.59	+9.3	1,439.65	36,974	+18.0
WTR YR 2004	--	--	+1.5	--	--	+0.5	--	--	-1.1

†† Elevation at daily reading on first day of following month.

† Elevation from reading on or nearest last day of month.

DELAWARE RIVER BASIN

DIVERSIONS FROM DELAWARE RIVER BASIN

01415200 Diversion from Pepacton Reservoir (see preceding pages) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York. REVISED RECORDS, WDR NY-71-1: 1970. WDR NY-81-1: 1980.

01423900 Diversion from Cannonsville Reservoir (see preceding pages) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York. REVISED RECORDS, WDR NY-81-1: 1980.

01435800 Diversion from Neversink Reservoir (see preceding pages) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York. REVISED RECORDS, WDR NY-82-1: 1976, 1977.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Month	01415200 <u>Pepacton Reservoir</u>	01423900 <u>Cannonsville Reservoir</u>	01435800 <u>Neversink Reservoir</u>
October	301	72.2	459
November	192	0.0	411
December	375	0.0	49.2
CAL YR 2003	368	115	213
January	747	242	0.0
February	764	399	0.0
March	392	44.4	390
April	445	0.0	272
May	712	86.8	221
June	621	374	159
July	379	252	221
August	218	102	303
September	153	0.0	388
WTR YR 2004	441	130	240